

### **Abstract**

The present invention concerns a bioactive implant material having a cartilage-inducing and/or bone-inducing activity composed of two components A and B, of which A is a bone-inducing and/or cartilage-inducing protein or protein mixture and preferably one or several proteins from the TGF- $\beta$  superfamily, preferably MP52 or a DNA sequence coding therefor and B is a carrier matrix composed of calcium phosphate ceramics with an interconnecting microporosity which already alone has bone-inducing properties. The invention additionally concerns the production of these compounds and their use for the treatment of diseases which affect cartilage and/or bones as well as to treat damage to cartilage and/or bone tissue.